Basic Imagery Interpretation Report



NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

25X1

GORKIY/SORMOVO RADAR ASSEMBLY AND TEST AREA

25X1

DEPLOYED COMM/ELEC/RADAR FACILITIES USSR **MARCH 1969**

COPY NO.103



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STALLATION OR ACTIVITY NAME Orkiy/Sormovo Radar Assembly and T	Test Area	COUNTRY	25X1
M COORDINATES GEOGRAPHIC COORDINATES	rest Area	UR	_
A 56-19-30N 043-48-05E			
CIC. US Air Target Chart 200, Sh	neet M0154-25HL, 4th ed. Max	66, Scale 1:200,000	
CST IMPAGENT USED	NEGATION DATE (Exception)		_
	NA .		_
	ABSTRACT		
This report provides a detailed im Assembly and Test Area. The facility bration/test towers, and an area i assembled or tested. It is the only calibration of the engagement radar defensive missile system, takes place.	y contains an engagement rada in which FAN SONG and un known Soviet facility in whic	ar assembly line, cali- nidentified radars are	
11	NTRODUCTION		
The Gorkiy/Sormovo Radar Asse	embly and Test Area is at an	elevation of 200 foot	
inited operation. The type of radars	under construction in If the facility to be nearly come present in the facility could not interpretability was available. As a rence 1. Intained within the security fer fence to eliminate interference 1 by a road leading down the ikidze 21. It is not possible to es, but it is possible that the and storage facilities with the and storage facilities with the and storage facilities with the security of the securit	plete and possibly in ot be identified until A detailed analysis of nee of the airfield. It e. airfield taxiway and establish the precise or radar assembly and airfragance plant. It has	25X
			25X
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FIGUR	E 1. LOCATION MAP.		
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BASIC DESCRIPTION	
The Gorkiy/Sormovo Radar Assembly and Test Area can be subdivided into three functional components (Figure 2): the engagement radar assembly line, the area where FAN SONG radars and unidentified radars are assembled/tested, and the three calibration/test towers serving the facility. The six buildings within the facility are discussed below with regard to their respective functional components. The engagement radar assembly line is located along the western edge of the facility and consists of five radar assembly bases situated between the rails of a traveling gantry crane. The width of the crane and the off-center positioning of the assembly bases allow antenna carriers and electronics vans to park beside the base and under the	
crane, for transloading, mounting, and testing radar components. In the assembly process, the bases serve as the support for the radar, which is normally positioned atop a van in a deployed situation. The radars are not mounted on yans at this facility. Each assembly base consists of a pedestal in diameter and high with a support structure positioned on its top. The support structure is a horizontal crossarm approximately 30 feet long, fixed to the pedestal, with a vertical mount on each extremity to support the radar. The dimensions of the vertical mounts could not be determined but one is larger and more dense than the other.	25X1
Could not be determined but one as range and	25X1
Activity on the assembly line has remained at a relatively constant level on all	
missions where the identification of radars could be made. On the latest photography of	25X1
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Three buildings are associated with the assembly line: one is located west, and two are north of the assembly line. The larger of the two northern buildings (item 4) has a dish antenna approximatelyn diameter mounted on its southwestern corner. The purpose of the building and the antenna is undetermined. The western building probably serves as the administration/control building for the facility.	25X1
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It has not been possible to specifically identify the activity involving the FAN SONG radars, but they have appeared to be in different configurations or stages of assembly on various missions. The placement of clutter screens between the radars and two of the calibration/test towers indicates that FAN SONG radars or their components are tested at this facility. It is not known whether this testing is for routine inspections,	
research and development, or a limited assembly process.	25X1
The four buildings with mounts are located immediately east of the FAN SONG radars; three are approximately the same size, diameter ring mount, and the fourth is 15 by 15 feet and supports an unidentified mount. A variety of antennas has been observed on all four of these buildings, including trough reflectors (similar to those on a FAN SONG), dish antennas, and other antennas that could not be identified by type. Thus, the buildings appear to be used in support of either the research or development of radars, or the testing of radar components. Two support buildings are associated with this test area; both are located south of the antenna support structures. A third building located adjacent to the easternmost FAN SONG radar was removed in 1967. Three calibration/test towers serve the facility (Figure 2). Based on the placement of clutter screens, Tower A is considered to serve the three FAN SONG radars, Tower B serves the FAN SONG radars and the four antenna support buildings, and Tower C probably serves the engagement radar assembly line.	25X1
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towers with box	estern towers (B and x-like structures (C) are similar in with an	asmuch as they undetermined h	are massive guyed eight) mounted on
the top. The t	ower that serves the	FAN SONG rad	ars is a lighter	nast approximately
	th a dish reflector mou	nted on it.		
Chronology				
The facility	y was first observed cility in revealed	under constructi	on in	photog-
to be complete,	but the rail-mounted	crane was not y	et in place. At 1	hat time, the FAN
SONG radar pos where the four	sitions were occupied antenna support bu	and there were u ildings are now	nidentified objection of the control	ets in the positions
from late	when the clutter scree	ens were installe	d and the calibra	tion/test tower for
the four antenn	na supports was erecte	<u>:a, </u>		
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		REFERENCES		
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Approved For Release 2007/02/22 : CIA-RDP78T04563A000100010032-7 **TOP SECRET**

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